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MINERAL FEEDER ... for cattle

COOPERATIVE FARM BUILDING

Plan No. 5906

(1-SHEET)

PLAN EXCHANGE

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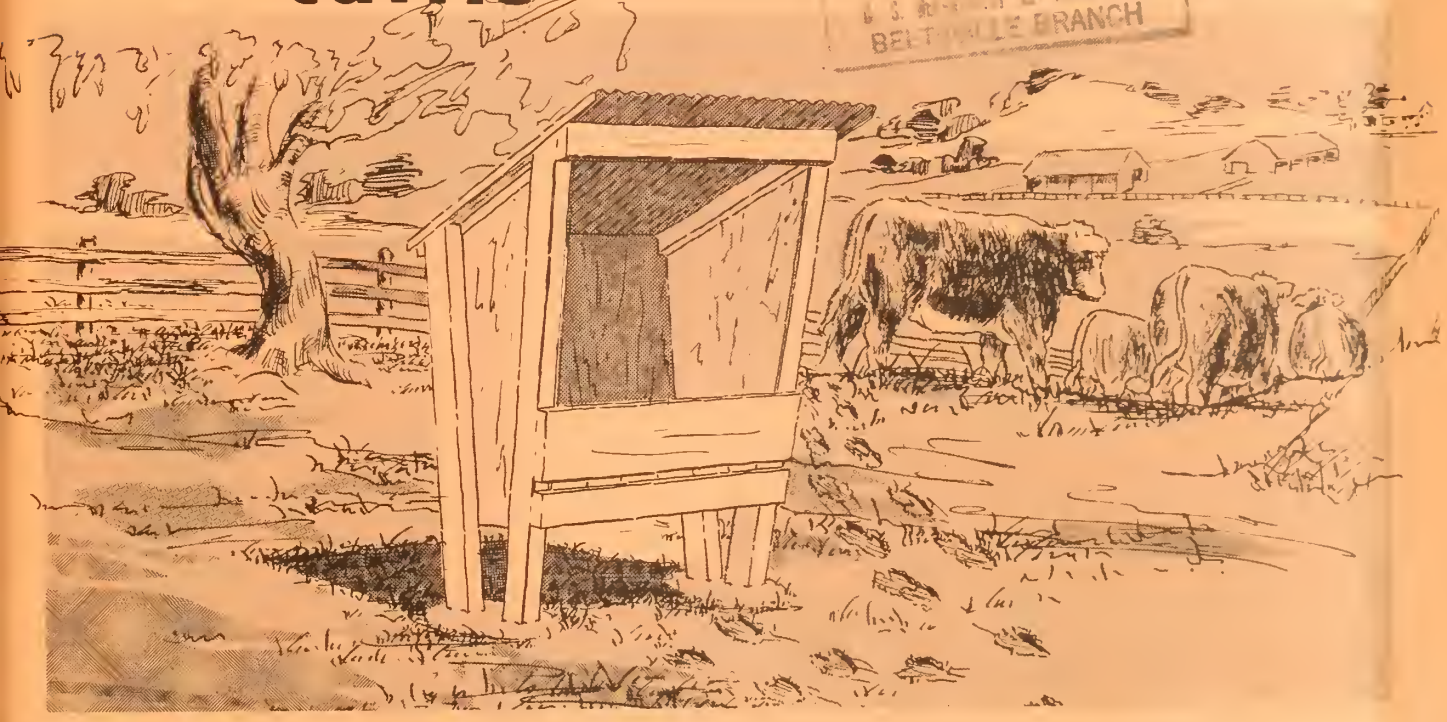

This feeder is suitable for use in pasture or feedlot, or on the open range. It should be erected on a readily accessible spot that has good drainage. To protect the salts and minerals from rain and snow it should be placed so that the opening faces away from the prevailing winds.

This simple pole-type box is also useful as a farm shop training exercise. The drawings are clear and precise, and a step-by-step procedure for construction is included.

Construction permits the best workman to show his skill. But a satisfactory box can be built without attention to fine details of workmanship. Several inches of tolerance are allowed for alinement because the dimension of 3 feet between the posts allows considerable trim margin on the 4-foot-wide backboard.

One sheet of ½-inch exterior plywood is cut to form the two sides and the back. The side pieces serve as templates on the 4 x 4 inch posts. After the side sheets are fastened to the posts the feeder may be finished in the field, where the lateral bracing, flooring, roofing, and back are all cut to fit.

A few precautions are necessary when assembling the floor of the box. For the subfloor, allow at least a ⅛" crack between the boards to allow for swelling during moisture and temperature changes. Place the finished hardboard over the subflooring, using glue or noncorrosive nails such as galvanized. Salt and weather are very damaging to unprotected steel. Drill holes through the flooring to allow excessive moisture and water to drain out.

The box is sturdy. Although an earth backfill on the posts may be used, a backfill of gravel is preferable because it will withstand the pressure of livestock that use the box as a scratching post.

Complete working drawings may be obtained through your county agent or from the Extension agricultural engineer at most State agricultural colleges. There is usually a small charge.

ORDER PLAN NO. 5906, MINERAL FEEDER FOR CATTLE

If working drawings of this plan are not available in your State, write to the U.S. Department of Agriculture, Agricultural Engineering Research Division, Plant Industry Station, Beltsville, Md. The U.S. Department of Agriculture does not distribute drawings, but will direct you to a State that does distribute them.

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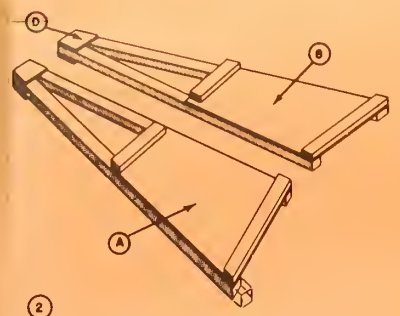
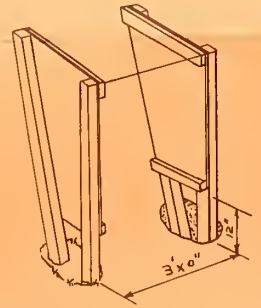


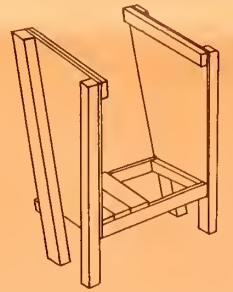
(2)

PARTS (A) & (B) ARE USED AS TEMPLATES. NAIL THEM SECURELY TO THE 4 x 4 POSTS. 2 x 4 MEMBERS ARE THEN POSITIONED, NAILED TO POSTS AND ENDS TRIMMED. TURN OVER & NAIL PLYWOOD TO 2 x 4's AND TRIM ENDS OF 4 x 4's. PART (D) IS USED FOR TYING BOTTOM ENDS OF POSTS.



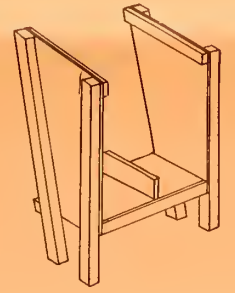
(3)

FOR FIELD ASSEMBLY---
SET ONE UNIT IN HOLE WITH BACK POST PLUMB AND TAMP FIRMLY IN PLACE. LINE UP OTHER UNIT WITH POSTS 3'-0" APART AND LEVEL WITH FIRST UNIT. FILL & TAMP.



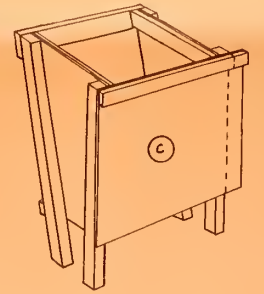
(4)

ADD 2 x 4 BOTTOM FRAMING. FACE NAIL FRONT MEMBER AND TRIM END. FIT & NAIL REAR MEMBER. ADD 1" BOARDS.



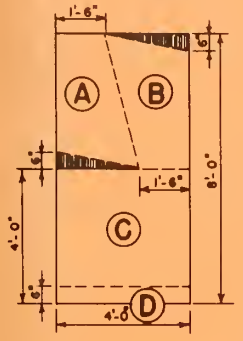
(5)

FIT 1/4" TEMPERED HARDBOARD BOTTOM AND SCREW IT TO 2 x 8 DIVIDER WHICH HAS BEEN CUT TO PROPER ANGLE. INSTALL BOTTOM AND NAIL SECURELY TO 2 x 4 FRAMING.



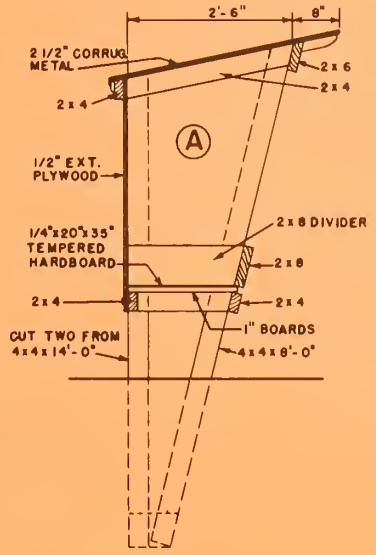
(6)

NAIL PLYWOOD BACK PANEL, PART (C) TO 2 x 4. POSITION PANEL & NAIL BOTH PLYWOOD AND 2 x 4 TO POSTS, BOTTOM FRAMING AND DIVIDER. TRIM 2 x 4 & PANEL FLUSH WITH POST. PLANE 2 x 4 TO ROOF SLOPE. INSTALL 2 x 6 TIE AT TOP OF FRONT POSTS, TRIM AND PLANE AS SHOWN.



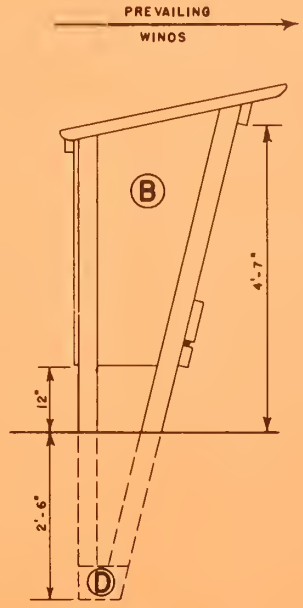
(1)

CUT 1/2" EXTERIOR GRADE PLYWOOD AS SHOWN ON DIAGRAM ABOVE.

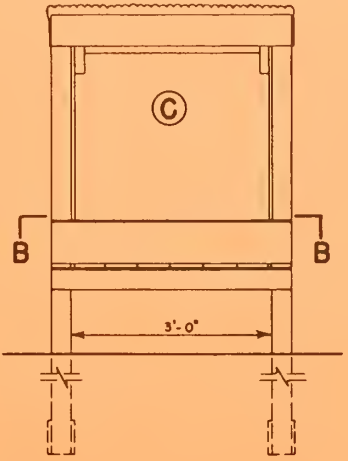


SECTION A-A

PREVAILING WINDS

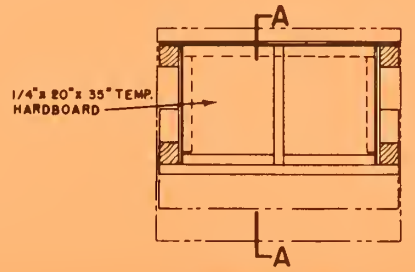


SIDE ELEVATION



(7)

NAIL 2 x 8 BOX FRONT TO POSTS AND DIVIDER.
INSTALL ROOF OF 2 1/2" CORRUGATED METAL (42" LONG x 48" WIDE), BEND SIDES DOWN AND NAIL TO POSTS.



PLAN AT B-B

NOTE:

POSTS SHOULD BE PRESSURE-TREATED WITH PENTACHLOROPHENOL OR COPPER NAPTHANATE. ALL OTHER WOOD PARTS SHOULD BE THOROUGHLY BRUSH COATED WITH COPPER NAPTHANATE.

NON-CORROSIVE FASTENINGS SHOULD BE USED.

FOR SHOP ASSEMBLY--COMPLETE, EXCEPT FOR METAL ROOFING, AND SLIDE OFF TRAILER INTO HOLES.

CAUTION: FACE FEEDER AWAY FROM PREVAILING WINDS.

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND

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MINERAL FEEDER
FOR CATTLE

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